ELSEVIER

Nuclear Instruments and Methods in Physics Research B 105 (1995) 359–364

NIM B
Beam Interactions with Materials & Atoms

Author index

Abel, F., V. Quillet and M. Schott, Degradation of polystyrene thin films under d, ^{4}He and ^{12}C irradiation studied by ion beam analysis: effects of energy loss, sample thickness and isotopic content 105 (1995) 86
Akama, K., see Hosoi, F. 105 (1995) 318
Alder, G.M., see Pasternak, C.A. 105 (1995) 332
Allegraud, J.J., see Gebel, G. 105 (1995) 145
Angert, N., see Friese, K. 105 (1995) 139
Apel, P.Y., see Pasternak, C.A. 105 (1995) 332
Apel, P.Yu., A.Yu. Didyk, B.I. Fursov, L.I. Kravets, V.G. Nesterov and G.S. Zhdanov, Particle track detection and relaxation transitions in polymer 105 (1995) 91
Apel, P.Yu., see Wolf, A. 105 (1995) 291
Awai, K., see Hosoi, F. 105 (1995) 318

Baccaro, S., B. Caccia, S. Onori and M. Pantaloni, The influence of dose rate and oxygen on the irradiation induced degradation in ethylene-propylene rubber 105 (1995) 97
Baccaro, S., L.A. Pajewski, G. Scoccia, R. Volpe and J.M. Rosiak, Mechanical properties of polyvinylpyrrolidone (PVP) hydrogels undergoing radiation 105 (1995) 100
Baillet, A., see Yagoubi, N. 105 (1995) 340
Balanzat, E., N. Betz and S. Bouffard, Swift heavy ion modification of polymers 105 (1995) 46
Balanzat, E., see Chailley, V. 105 (1995) 110
Bashford, C.L., see Pasternak, C.A. 105 (1995) 332
Bataille, P., I. Ulkem and H.P. Schreiber, Effects of irradiation on PVC compounds 105 (1995) 103
Bauer, F., Properties of ferroelectric polymers under high pressure and shock loading 105 (1995) 212
Bellard, L., see Lazare, S. 105 (1995) 159
Bellet-Amalric, E., see Legrand, J.F. 105 (1995) 225
Bertrand, P., see Lhoest, J.-B. 105 (1995) 322
Betz, N., Ion track grafting 105 (1995) 55
Betz, N., see Balanzat, E. 105 (1995) 46
Betz, N., see Dapoz, S. 105 (1995) 120
Betz, N., see Gebel, G. 105 (1995) 145
Betz, N., see Petersohn, E. 105 (1995) 267
Boiteux, G., see Escoubes, M. 105 (1995) 130
Bolle, M., see Lazare, S. 105 (1995) 159
Bouffard, S., B. Gervais and C. Leroy, Basic phenomena induced by swift heavy ions in polymers 105 (1995) 1
Bouffard, S., see Balanzat, E. 105 (1995) 46
Boutarek, N., see Laude, L.D. 105 (1995) 254
Brede, O., Pulse radiolysis studies of the action of antioxidants in polyethylene and model systems: 4-methyl-2,6-di-t-butyl-phenol 105 (1995) 106

Caccia, B., see Baccaro, S. 105 (1995) 97
Calcagno, L., Ion–chains interaction in polymers 105 (1995) 63
Calcagno, L., see Percolla, R. 105 (1995) 181
Cardoso, J., see Martínez-Pardo, Ma.E. 105 (1995) 258
Caudano, R., see Pireaux, J.J. 105 (1995) 186
Červená, J., see Hnatowicz, V. 105 (1995) 241
Cetier, Ph., see Tomasella, E. 105 (1995) 285
Chadderton, L.T., see Zhu, J.L. 105 (1995) 208
Chailley, V., E. Balanzat and E. Dooryhee, Amorphization kinetics of poly(vinylidene fluoride) on high-energy ion irradiation 105 (1995) 110
Chambaudet, A., see Tomasella, E. 105 (1995) 285
Chapiro, A., General consideration of the radiation chemistry of polymers 105 (1995) 5

0168-583X/95/$09.50 © 1995 Elsevier Science B.V. All rights reserved

Charlesby, A., Present and future developments in polymer radiation 105 (1995) 217
Charlier, M., see Spotheim-Maurizot, M. 105 (1995) 308
Charlier, M., see Michalik, V. 105 (1995) 328
Chtaïb, M., see Pireaux, J.J. 105 (1995) 186
Ciavola, G., see Percolla, R. 105 (1995) 181
Ciesla, K. and W. Starosta, Heavy ions track structure in a PETP 105 (1995) 115
Collins, D.R., see Russell, F.M. 105 (1995) 30
Coqueret, X., see Maschke, U. 105 (1995) 262
Cosset, J.M., see Frohlich, H. 105 (1995) 314
Cros, A., see Lazare, S. 105 (1995) 159
Cruz, S.A., see Zhu, J.L. 105 (1995) 208
Czvikovszky, T., Reactive recycling of multiphase polymer systems through electron beam 105 (1995) 233

Dapoz, S., N. Betz, M.-J. Guittet and A. Le Moël, ESCA characterization of heparin-like fluoropolymers obtained by functionalization after grafting induced by swift heavy ion irradiation 105 (1995) 120
Daubresse, C., T. Sergent-Engelen, E. Ferain, Y.-J. Schneider and R. Legras, Characterisation of energetic heavy ion track in PVDF: Production of PVDF track-etched membrane and application 105 (1995) 126
Daudin, B., see Legrand, J.F. 105 (1995) 225
Davenas, J., see Escoubes, M. 105 (1995) 130
De Araújo, M.A., see Farenzena, L.S. 105 (1995) 134
Delagrange, H., Industrial applications of ion beams: GANIL approach and prospects 105 (1995) 345
De Meulemeester, R., see Pireaux, J.J. 105 (1995) 186
Dewez, J.-L., see Lhoest, J.-B. 105 (1995) 322
Didyk, A.Yu., see Apel, P.Yu. 105 (1995) 91
Dogué, I.L.J., N. Merrmilliod and R. Foerch, Grafting of acrylic acid onto polypropylene – comparison of two pretreatments: γ-irradiation and argon plasma 105 (1995) 164
Dolveck, J.Y., see Escoubes, M. 105 (1995) 130
Dooryhee, E., see Chailley, V. 105 (1995) 110
Dooryhée, E., see Schlößer, D. 105 (1995) 278
Duraud, J.P. and A. Le Moël, Radiation physics and chemistry of surfaces 105 (1995) 71

Escoubes, M., J.Y. Dolveck, J. Davenas, X.L. Xu and G. Boiteux, Ion beam modification of polyimide membranes for gas permeation 105 (1995) 130
Eyal, Y., see Remmert, G. 105 (1995) 197

Farenzena, L.S., R.M. Papaléo, A. Hallén, M.A. de Araújo, R.P. Livi and B.U.R. Sundqvist, Modifications in the chemical bonding and optical absorption of PPS by ion bombardment 105 (1995) 134
Ferain, E., see Daubresse, C. 105 (1995) 126
Ferrier, D., see Yagoubi, N. 105 (1995) 340
Fink, D., see Zhu, J.L. 105 (1995) 208
Fink, D., see Hnatowicz, V. 105 (1995) 241
Fischer, B.E., see Remmert, G. 105 (1995) 197
Fischer, B.E., see Wolf, A. 105 (1995) 291
Foerch, R., see Dogué, I.L.J. 105 (1995) 164
Foti, G., see Percolla, R. 105 (1995) 181
Franchet-Beuzit, J., see Spotheim-Maurizot, M. 105 (1995) 308
Frerichs, H., see Kreutz, E.W. 105 (1995) 245
Friese, K., V. Placek, R. Mehnert, N. Angert, R. Spohr and Ch. Trautmann, Radiation-induced grafting of styrene onto polyimide ion track membranes 105 (1995) 139
Frohlich, H., M. Le Maire, F. Guillot, M. Tronc, J.M. Cosset and C. Le Sech, Fragmentation of dinucleotides d(ApAp) following K shell ionization of phosphorus atom by monochromatic soft X-rays 105 (1995) 314
Fuess, H., see Steckenreiter, T. 105 (1995) 200
Fursov, B.I., see Apel, P.Yu. 105 (1995) 91

Gebel, G., E. Ottomani, J.J. Allegraud, N. Betz and A. Le Moël, Structural study of polystyrene grafted in irradiated polyvinylidene fluoride thin films 105 (1995) 145
Gervais, B., see Bouffard, S. 105 (1995) 1
Ghosh, S., see Zhu, J.L. 105 (1995) 208
Girard, J.C., see Grilhé, J. 105 (1995) 21
Grégoire, Ch., see Pireaux, J.J. 105 (1995) 186
Grilhé, J. and J.C. Girard, Free surface deformations of an irradiated solid 105 (1995) 21

Guillot, F., see Frohlich, H. 105 (1995) 314
Guittet, M.-J., see Dapoz, S. 105 (1995) 120

Hallén, A., see Farenzena, L.S. 105 (1995) 134
Hernández-Mendoza, V., see Martínez-Pardo, Ma.E. 105 (1995) 258
Hnatowicz, V., J. Vacík, J. Červená, V. Švorčík, V. Rybka, V. Popok, D. Fink and R. Klett, Doping of ion implanted polyethylene with metallocarborane 105 (1995) 241
Hosoi, F., H. Omichi, K. Akama, K. Awai, S. Tokuyama and T. Satoh, Radiation-induced polymerization of a phospholipid for developing artificial red blood cells 105 (1995) 318
Hult, A., see Malmström, E. 105 (1995) 168

Ichikawa, T., Mechanism of radiation-induced degradation of poly(methyl methacrylate) — temperature effect 105 (1995) 150
Isabelle, V., see Spotheim-Maurizot, M. 105 (1995) 308
Ishigure, K., see Shibata, H. 105 (1995) 42
Iyer, R.M. and V. Markovic, IAEA's programme on applied radiation chemistry – polymers 105 (1995) 238

Jönsson, S.E., see Malmström, E. 105 (1995) 168

Kaetsu, I., Biocompatible and biofunctional membranes by means of radiation techniques 105 (1995) 294
Kaplan, I.G., The track structure in condensed matter 105 (1995) 8
Klein, D., see Tomasella, E. 105 (1995) 285
Klett, R., see Hnatowicz, V. 105 (1995) 241
Knolle, W. and R. Mehnert, Primary reactions in the electron-induced polymerization of acrylates 105 (1995) 154
Kolev, K., see Laude, L.D. 105 (1995) 254
Korchev, Y.E., see Pasternak, C.A. 105 (1995) 332
Krämer, M., Calculations of heavy-ion track structure 105 (1995) 14
Kravets, L.I., see Apel, P.Yu. 105 (1995) 91
Kreutz, E.W., H. Frerichs, J. Stricker and D.A. Wesner, Processing of polymer surfaces by laser radiation 105 (1995) 245
Kuznetsov, L.V., see Kuznetsov, V.I. 105 (1995) 250
Kuznetsov, V.I., L.V. Kuznetsov and V.D. Shestakov, Track membranes of the third generation, (TMG-3): their properties and industrial application 105 (1995) 250

Labed, V., see Tomasella, E. 105 (1995) 285
Laude, L.D., N. Boutarek and K. Kolev, Excimer lasers for surface engineering of polymer-based composites 105 (1995) 254
Lazare, S., M. Bolle, A. Cros and L. Bellard, Perdiodic structuration of polymer surfaces with the excimer laser radiation 105 (1995) 159
Legrand, J.F., B. Daudin and E. Bellet-Amalric, Dipolar glass behaviour of a ferroelectric polymer after irradiation . . 105 (1995) 225
Legras, R., see Daubresse, C. 105 (1995) 126
Le Maire, M., see Frohlich, H. 105 (1995) 314
Le Moël, A., see Duraud, J.P. 105 (1995) 71
Le Moël, A., see Dapoz, S. 105 (1995) 120
Le Moël, A., see Gebel, G. 105 (1995) 145
Le Moël, A., see Zhitariuk, N.I. 105 (1995) 204
Le Moël, A., see Petersohn, E. 105 (1995) 267
Le Moël, A., see Schlößer, D. 105 (1995) 278
Leroy, C., see Bouffard, S. 105 (1995) 1
Le Sech, C., see Frohlich, H. 105 (1995) 314
Lessard, R.A. and G. Manivannan, Prospects for nonlinear optics 105 (1995) 229
Lev, A.A., see Pasternak, C.A. 105 (1995) 332
Lhoest, J.-B., J.-L. Dewez and P. Bertrand, PMMA surface modification under keV and MeV ion bombardment in relation to mammalian cell adhesion 105 (1995) 322
Livi, R.P., see Farenzena, L.S. 105 (1995) 134
Loucheux, C., see Maschke, U. 105 (1995) 262

Malmström, E., P.E. Sundell, A. Hult and S.E. Jönsson, Mechanisms of radiation induced cationic polymerization in the presence of onium salts 105 (1995) 168
Manivannan, G., see Lessard, R.A. 105 (1995) 229
Marin, N. and Y. Serruys, Diffusion of metals deposited on a polyimide film (Kapton) under and out of irradiation . . 105 (1995) 175
Markovic, V., see Iyer, R.M. 105 (1995) 238
Marletta, G., see Pivin, J.C. 105 (1995) 192

Martínez-Pardo, Ma.E., Ma.P. Zuazua, V. Hernández-Mendoza, J. Cardoso, R. Montiel and H. Vázquez, Structure–properties relationship of irradiated LDPE/EVA blend . . . 105 (1995) 258
Maschke, U., X. Coqueret and C. Loucheux, Electron beam processing for polymerization induced phase separation: Preparation of polymer dispersed liquid crystal films . . . 105 (1995) 262
Mehnert, R., see Friese, K. . . . 105 (1995) 139
Mehnert, R., see Knolle, W. . . . 105 (1995) 154
Mehnert, R., Electron beams in research and technology . . . 105 (1995) 348
Mermilliod, N., see Dogué, I.L.J. . . . 105 (1995) 164
Mermilliod, N., see Zhitariuk, N.I. . . . 105 (1995) 204
Michalik, V., M. Spotheim-Maurizot and M. Charlier, Calculated radiosensitivities of different forms of DNA in solution . . . 105 (1995) 328
Milinchuk, V.K., Photoradiation chemistry of polymers . . . 105 (1995) 24
Montiel, R., see Martínez-Pardo, Ma.E. . . . 105 (1995) 258
Musumeci, P., see Percolla, R. . . . 105 (1995) 181

Nesterov, V.G., see Apel, P.Yu. . . . 105 (1995) 91
Novis, Y., see Pireaux, J.J. . . . 105 (1995) 186

Omichi, H., see Reber, N. . . . 105 (1995) 275
Omichi, H., Synthesis of intelligent materials using ion beams . . . 105 (1995) 302
Omichi, H., see Hosoi, F. . . . 105 (1995) 318
Onori, S., see Baccaro, S. . . . 105 (1995) 97
Ottomani, E., see Gebel, G. . . . 105 (1995) 145

Pajewski, L.A., see Baccaro, S. . . . 105 (1995) 100
Pantaloni, M., see Baccaro, S. . . . 105 (1995) 97
Papaléo, R.M., see Farenzena, L.S. . . . 105 (1995) 134
Pasternak, C.A., G.M. Alder, P.Y. Apel, C.L. Bashford, Y.E. Korchev, A.A. Lev, T.K. Rostovtseva and N.I. Zhitariuk, Model pores for biological membranes: the properties of track-etched membranes . . . 105 (1995) 332
Pellerin, F., see Yagoubi, N. . . . 105 (1995) 340
Percolla, R., P. Musumeci, L. Calcagno, G. Foti and G. Ciavola, Grafting of styrene in polyvinylidene fluoride by high energy ion irradiation . . . 105 (1995) 181
Petersohn, E., N. Betz and A. Le Moël, Modification of phase transitions in swift heavy ion irradiated and MMA-grafted ferroelectric fluoropolymers . . . 105 (1995) 267
Pireaux, J.J., R. de Meulemeester, E.M. Roberfroid, Ch. Grégoire, M. Chtaïb, Y. Novis, J. Riga and R. Caudano, Excimer laser ($\lambda = 193$ nm) versus Al Kα X-ray damages on polymer surfaces: an XPS (core and valence levels) analysis of polytetrafluoroethylene, polypropylene and polyethylene . . . 105 (1995) 186
Pivin, J.C., P. Viel, G. Zalczer and G. Marletta, Effects of ionizations and displacements on the hardness and optical absorption of some ion irradiated polymers . . . 105 (1995) 192
Placek, V., see Friese, K. . . . 105 (1995) 139
Popok, V., see Hnatowicz, V. . . . 105 (1995) 241

Quillet, V., see Abel, F. . . . 105 (1995) 86

Reber, N., H. Omichi, R. Spohr, M. Tamada, A. Wolf and M. Yoshida, Thermal switching of grafted single ion tracks . . . 105 (1995) 275
Reber, N., see Wolf, A. . . . 105 (1995) 291
Reisser, M., see Schmoranzer, H. . . . 105 (1995) 35
Remmert, G., Y. Eyal, B.E. Fischer and R. Spohr, Gas permeability and cross section of latent ion tracks in polymers . . . 105 (1995) 197
Riga, J., see Pireaux, J.J. . . . 105 (1995) 186
Robé, M.C., see Tomasella, E. . . . 105 (1995) 285
Roberfroid, E.M., see Pireaux, J.J. . . . 105 (1995) 186
Rosiak, J.M., see Baccaro, S. . . . 105 (1995) 100
Rosiak, J.M., P. Ulański and A. Rzeźnicki, Hydrogels for biomedical purposes . . . 105 (1995) 335
Rostovtseva, T.K., see Pasternak, C.A. . . . 105 (1995) 332
Russell, F.M. and D.R. Collins, Lattice-solitons in radiation damage . . . 105 (1995) 30
Rybka, V., see Hnatowicz, V. . . . 105 (1995) 241
Rzeźnicki, A., see Rosiak, J.M. . . . 105 (1995) 335

Satoh, T., see Hosoi, F. . . . 105 (1995) 318
Schlößer, D., A. Le Moël and E. Dooryhée, Carbon ion induced modifications of the Curie transition in ferroelectric polymers . . . 105 (1995) 278

Schmoranzer, H. and M. Reisser, Spatial energy deposition distribution by a keV-electron beam in resist layers for electron-beam lithography . . . 105 (1995) 35
Schneider, Y.-J., see Daubresse, C. . . . 105 (1995) 126
Schott, M., see Abel, F. . . . 105 (1995) 86
Schreiber, H.P., see Bataille, P. . . . 105 (1995) 103
Scoccia, G., see Baccaro, S. . . . 105 (1995) 100
Seki, S., see Shibata, H. . . . 105 (1995) 42
Sergent-Engelen, T., see Daubresse, C. . . . 105 (1995) 126
Serruys, Y., see Marin, N. . . . 105 (1995) 175
Shestakov, V.D., see Kuznetsov, V.I. . . . 105 (1995) 250
Shibata, H., S. Seki, S. Tagawa, Y. Yoshida and K. Ishigure, Time-dependent emission spectra from polysilane thin films irradiated by MeV ion beams . . . 105 (1995) 42
Spohr, R., see Friese, K. . . . 105 (1995) 139
Spohr, R., see Remmert, G. . . . 105 (1995) 197
Spohr, R., see Reber, N. . . . 105 (1995) 275
Spohr, R., see Wolf, A. . . . 105 (1995) 291
Spotheim-Maurizot, M., J. Franchet-Beuzit, V. Isabelle, L. Tartier and M. Charlier, DNA radiolysis. Mapping of the gene regulation domains . . . 105 (1995) 308
Spotheim-Maurizot, M., see Michalik, V. . . . 105 (1995) 328
Stamm, M., see Steckenreiter, T. . . . 105 (1995) 200
Starosta, W., see Ciesla, K. . . . 105 (1995) 115
Steckenreiter, T., H. Fuess, M. Stamm and C. Trautmann, Solvent-induced sensitization of ion tracks in PET analyzed by small-angle X-ray scattering and differential scanning calorimetry . . . 105 (1995) 200
Stricker, J., see Kreutz, E.W. . . . 105 (1995) 245
Sundell, P.E., see Malmström, E. . . . 105 (1995) 168
Sundqvist, B.U.R., see Farenzena, L.S. . . . 105 (1995) 134
Švorčík, V., see Hnatowicz, V. . . . 105 (1995) 241

Tagawa, S., see Shibata, H. . . . 105 (1995) 42
Takács, E. and L. Wojnárovits, Time resolved study of the high energy radiation initiated polymerization . . . 105 (1995) 282
Tamada, M., see Reber, N. . . . 105 (1995) 275
Tartier, L., see Spotheim-Maurizot, M. . . . 105 (1995) 308
Tokuyama, S., see Hosoi, F. . . . 105 (1995) 318
Tomasella, E., V. Labed, D. Klein, M.C. Robé, Ph. Cetier and A. Chambaudet, Effect of UV and gamma radiation on Rn222 permeation through polyvinyl chloride (PVC). Application to the packaging of radium sources for the purpose of storage . . . 105 (1995) 285
Trautmann, C., Observation and chemical treatment of heavy-ion tracks in polymers . . . 105 (1995) 81
Trautmann, C., see Steckenreiter, T. . . . 105 (1995) 200
Trautmann, C., see Zhitariuk, N.I. . . . 105 (1995) 204
Trautmann, Ch., see Friese, K. . . . 105 (1995) 139
Tronc, M., see Frohlich, H. . . . 105 (1995) 314

Ulański, P., see Rosiak, J.M. . . . 105 (1995) 335
Ulkem, I., see Bataille, P. . . . 105 (1995) 103

Vacík, J., see Hnatowicz, V. . . . 105 (1995) 241
Vázquez, H., see Martínez-Pardo, Ma.E. . . . 105 (1995) 258
Viel, P., see Pivin, J.C. . . . 105 (1995) 192
Volpe, R., see Baccaro, S. . . . 105 (1995) 100

Wesner, D.A., see Kreutz, E.W. . . . 105 (1995) 245
Wojnárovits, L., see Takács, E. . . . 105 (1995) 282
Wolf, A., see Reber, N. . . . 105 (1995) 275
Wolf, A., N. Reber, P.Yu. Apel, B.E. Fischer and R. Spohr, Electrolyte transport in charged single ion track capillaries . . . 105 (1995) 291

Xu, X.L., see Escoubes, M. . . . 105 (1995) 130

Yagoubi, N., A. Baillet, F. Pellerin and D. Ferrier, Physico-chemical behaviour of β irradiated plastic materials currently used as packagings and medical products . . . 105 (1995) 340

Yoshida, M., see Reber, N. 105 (1995) 275
Yoshida, Y., see Shibata, H. 105 (1995) 42

Zalczer, G., see Pivin, J.C. 105 (1995) 192
Zhdanov, G.S., see Apel, P.Yu. 105 (1995) 91
Zhitariuk, N.I., A. Le Moël, N. Mermilliod and C. Trautmann, Polymerization of pyrrole into track membranes 105 (1995) 204
Zhitariuk, N.I., see Pasternak, C.A. 105 (1995) 332
Zhu, D.Z., see Zhu, J.L. 105 (1995) 208
Zhu, J.L., L.T. Chadderton, D. Fink, S.A. Cruz, S. Ghosh and D.Z. Zhu, Electronic stopping and etched particle tracks in polymers. Part II: boron and lithium tracks 105 (1995) 208
Zuazua, Ma.P., see Martínez-Pardo, Ma.E. 105 (1995) 258